

SEQUENCE LISTING

<110> Nippon Mitsubishi Oil Corporation

<120> A process for producing carotenoid pigments

<130> PH-1223-PCT

<140>

<141>

<150> JP 2000-175124

<151> 2000-06-12

<160> 2

<170> PatentIn Ver. 2.0

<210> 1

<211> 1452

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:E-396

<400> 1

agtttgatcc tggctcagaa cgaacgctgg cggcaggctt aacacatgca agtcgagcga 60

10049228.021102

gaccttcggg tctagcggcg gacgggtgag taacgcgtgg gaacgtgccc ttctctacgg 120
aatagccccg ggaaactggg agtaataccg tatacgccct ttgggggaaa gatttatcgg 180
agaaggatcg gcccgcgttg gattaggtag ttggtggggt aatggcccac caagccgacg 240
atccatagct ggtttgagag gatgatcagc cacactggga ctgagacacg gccagactc 300
ctacgggagg cagcagtggg gaatcctaga caatgggggc aaccctgac tagccatgcc 360
gcgtgagtga tgaaggcctt agggttgtaa agctctttca gctgggaaga taatgacggt 420
accagcagaa gaagccccgg ctaactccgt gccagcagcc gcggtataac ggagggggct 480
agcgttggtc ggaattactg ggcgtaaagc gcacgtaggc ggactggaaa gtcagaggtg 540
aaatcccagg gctcaacctt ggaactgcct ttgaaactat cagtctggag ttcgagagag 600
gtgagtggaa ttccgagtgt agaggtgaaa ttcgtagata ttcggaggaa caccagtggc 660
gaaggcggct cactggctcg atactgacgc tgagggtcga aagcgtgggg agcaaacagg 720
attagatacc ctggtagtcc acgccgtaaa cgatgaatgc cagacgtcgg caagcatgct 780
tgtcgggtgc acacctaacg gattaagcat tccgcctggg gactacggtc gcaagattaa 840
aactcaaagg aattgacggg ggcccgacac agcgggtggag catgttggtt aattcgaagc 900
aacgcgcaga accttaccaa cccttgacat ggcaggaccg ctggagagat tcagctttct 960
cgtaagagac ctgcacacag gtgctgcatg gctgtcgtca gctcgtgtcg tgagatgttc 1020
ggttaagtcc ggcaacgagc gcaaccacg tccctagtgt ccagcaattc agttgggaac 1080
tctatggaaa ctgccgatga taagtcggag gaagggtgtg atgacgtcaa gtcctcatgg 1140
gccttacggg ttgggctaca cacgtgctac aatgggtggg acagtgggtt aatccccaaa 1200
agccatctca gttcggattg tcctctgcaa ctcgagggca tgaagtigga atcgctagta 1260
atcgcggaac agcatgccgc ggtgaatacg ttcccgggcc ttgtacacac cgcccgtcac 1320
accatgggag ttggttctac ccgacgacgn tgcgctaacc ttcggggggc aggcggccac 1380
ggtaggatca gcgactgggg tgaagtcgta acaaggtagc cgtaggggaa cctgcggctg 1440
gatcacctcc tt 1452

<210> 2

<211> 1426

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:A-581-1

<400> 2

tagagtttga tcctggctca gaacgaacgc tggcggcagg cttaacacat gcaagtcgag 60
cgagaccttc gggctctagcg gcggacgggt gagtaacgcg tgggaacgtg cccttctcta 120
cggaatagcc ccgggaaact gggagtaata ccgtatacgc cctttggggg aaagatttat 180
cggagaagga tcggcccgcg ttggattagg tagttggtga ggtaacggct caccaagccg 240
acgatccata gctggtttga gaggatgatc agccacactg ggactgagac acggcccaga 300
ctcctacggg aggcagcagt ggggaatctt agacaatggg ggcaaccctg atctagccat 360
gccgcgtgag tgatgaaggc cttaggggtg taaagctctt tcagctggga agataatgac 420
ggtaccagca gaagaagccc cggctaactc cgtgccagca gccgcggtaa tacggagggg 480
gctagcgttg ttcggaatta ctgggcgtaa agcgcacgta ggccggactg aaagtcagag 540
gtgaaatccc agggctcaac cttggaactg cctttgaaac tatcagtctg gagttcgaga 600
gaggtgagtg gaattccgag tgtagagggt aaattcgtag atattcgag gaacaccagt 660
ggcgaaggcg gctcactggc tcgatactga cgctgagggt cgaaagcgtg gggagcaaac 720
aggattagat accctggtag tccacgccgt aaacgatgaa tgccagacgt cggcaagcat 780
gcttgtcggg gtcacaccta acggattaag cattccgcct ggggagtacg gtcgcaagat 840
taaaactcaa aggaattgac gggggcccgc acaagcgggt gagcatgtgg ttaattcga 900
agcaacgcgc agaaccttac caacccttga catggcagga ccgctggaga gattcagctt 960
tctcgtaaga gacctgcaca cagggtgctgc atggctgtcg tcagctcgtg tcgtgagatg 1020
ttcggttaag tccggcaacg agcgcacccc acgtccctag ttgccagcat tcagttgggc 1080
actctatgga aactgccggt gataagccgg aggaagggtg ggatgacgtc aagtcctcat 1140
ggcccttacg ggttgggcta cacacgtgct acaatggtgg tgacagtggg ttaatcccca 1200
aaagccatct cagttcggat tgtcctctgc aactcgaggg catgaagttg gaatcgctag 1260
taatcgcgga acagcatgcc gcggtgaata cgttcccggg ccttgtacac accgcccgtc 1320
acaccatggg agttggttct acccgacgac gctgcgctaa cccttcgggg aggcaggcgg 1380
ccacggtagg atcagcgact ggggtgaagt cgtaacaagg tagcca 1426